Hasan Ã–zer

List of Publications by Year
in descending order

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58 papers	1,589 citations	361413 20 h-index	315739 38 g-index
63 all docs	63 docs citations	63 times ranked	961 citing authors

#	Article	IF	Citations
1	Development of the fracture-based flexibility index for asphalt concrete cracking potential using modified semi-circle bending test parameters. Construction and Building Materials, 2016, 115, 390-401.	7.2	208
2	Hybrid life cycle assessment for asphalt mixtures with high RAP content. Resources, Conservation and Recycling, 2014, 83, 77-86.	10.8	192
3	Fracture Characterization of Asphalt Mixtures with High Recycled Content Using Illinois Semicircular Bending Test Method and Flexibility Index. Transportation Research Record, 2016, 2575, 130-137.	1.9	101
4	Environmental and economic analyses of recycled asphalt concrete mixtures based on material production and potential performance. Resources, Conservation and Recycling, 2015, 104, 141-151.	10.8	82
5	Vehicle energy consumption and an environmental impact calculation model for the transportation infrastructure systems. Journal of Cleaner Production, 2018, 174, 424-436.	9.3	71
6	Characterisation of interface bonding between hot-mix asphalt overlay and concrete pavements: modelling andin-situresponse to accelerated loading. International Journal of Pavement Engineering, 2012, 13, 181-196.	4.4	60
7	Interface Bonding between Hot-Mix Asphalt and Various Portland Cement Concrete Surfaces. Transportation Research Record, 2008, 2057, 46-53.	1.9	55
8	Prediction of pavement fatigue cracking at an accelerated testing section using asphalt mixture performance tests. International Journal of Pavement Engineering, 2018, 19, 264-278.	4.4	50
9	Effects of Interface Conditions on Reflective Cracking Development in Hot-Mix Asphalt Overlays. Road Materials and Pavement Design, 2010, 11, 307-334.	4.0	43
10	Life-Cycle Greenhouse Gases and Energy Consumption for Material and Construction Phases of Pavement with Traffic Delay. Transportation Research Record, 2014, 2428, 27-34.	1.9	36
11	Damage zone development in heterogeneous asphalt concrete. Engineering Fracture Mechanics, 2017, 182, 356-371.	4.3	36
12	Optimizing rejuvenator content in asphalt concrete to enhance its durability. Construction and Building Materials, 2018, 179, 642-648.	7.2	36
13	Investigation of viscoelastic fracture fields in asphalt mixtures using digital image correlation. International Journal of Fracture, 2017, 205, 37-56.	2.2	33
14	Fracture-Based Friction Model for Pavement Interface Characterization. Transportation Research Record, 2008, 2057, 54-63.	1.9	27
15	Interface Bonding between Hot-Mix Asphalt and various Portland Cement Concrete Surfaces. Transportation Research Record, 2009, 2127, 20-28.	1.9	27
16	Performance Characterization of Asphalt Mixtures at High Asphalt Binder Replacement with Recycled Asphalt Shingles. Transportation Research Record, 2013, 2371, 105-112.	1.9	24
17	Mechanics based model for predicting structure-induced rolling resistance (SRR) of the tire-pavement system. Mechanics of Time-Dependent Materials, 2016, 20, 579-600.	4.4	24
18	Quantifying sustainable strategies for the construction of highway pavements in Illinois. Transportation Research, Part D: Transport and Environment, 2017, 51, 1-13.	6.8	24

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19	Regional upstream life-cycle impacts of petroleum products in the United States. Journal of Cleaner Production, 2016, 139, 1138-1149.	9.3	23
20	Using binder and mixture space diagrams to evaluate the effect of re-refined engine oil bottoms on binders and mixtures after ageing. Road Materials and Pavement Design, 2017, 18, 154-182.	4.0	22
21	Scenarios Developed for Improved Sustainability of Illinois Tollway. Transportation Research Record, 2015, 2523, 11-18.	1.9	21
22	Impact of high recycled mixed on HMA overlay crack development rate. Road Materials and Pavement Design, 2017, 18, 311-327.	4.0	20
23	Effects of Pavement Condition on LCCA User Costs. Transportation Research Record, 2019, 2673, 339-350.	1.9	20
24	Early-age performance characterization of hot-mix asphalt overlay with varying amounts of asphalt binder replacement. Construction and Building Materials, 2017, 153, 294-306.	7.2	19
25	New Stochastic Approach of Vehicle Energy Dissipation on Nondeformable Rough Pavements. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	19
26	Effects of Pavement Surface Roughness and Congestion on Expected Freeway Traffic Energy Consumption. Transportation Research Record, 2015, 2503, 10-19.	1.9	18
27	Viscoelastic and Poissonâ€™s ratio characterization of asphalt materials: critical review and numerical simulations. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	18
28	Baseline rolling resistance for tiresâ€™ on-road fuel efficiency using finite element modeling. International Journal of Pavement Engineering, 2017, 18, 424-432.	4.4	17
29	Testing of Fine Asphalt Mixtures to Quantify Effectiveness of Asphalt Binder Replacement Using Recycled Shingles. Transportation Research Record, 2014, 2445, 103-112.	1.9	16
30	Impact of Pavement Roughness and Deflection on Fuel Consumption Using Energy Dissipation. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	16
31	Influence of mix design parameters on asphalt concrete aging rate using I-FIT specimens. Construction and Building Materials, 2019, 200, 181-187.	7.2	16
32	Stochastic Analysis of Energy Dissipation of a Half-Car Model on Nondeformable Rough Pavement. Journal of Transportation Engineering Part B: Pavements, 2017, 143, .	1.5	15
33	Micromechanical finite element modeling of moisture damage in bituminous composite materials. Construction and Building Materials, 2015, 80, 9-17.	7.2	14
34	Impact of Specimen Configuration and Characteristics on Illinois Flexibility Index. Transportation Research Record, 2018, 2672, 383-393.	1.9	13
35	Environmental and economic impact of using new-generation wide-base tires. International Journal of Life Cycle Assessment, 2019, 24, 753-766.	4.7	13
36	Stochastic Analysis of Rolling Resistance Energy Dissipation for a Tractor-Trailer Model. Transportation Research Record, 2019, 2673, 593-603.	1.9	13

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37	Total Recycled Asphalt Mixes: Characteristics and Field Performance. Transportation Research Record, 2019, 2673, 149-162.	1.9	12
38	Effect of Chemical Composition of Bio- and Petroleum-Based Modifiers on Asphalt Binder Rheology. Applied Sciences (Switzerland), 2020, 10, 3249.	2.5	11
39	Computational micromechanical analysis of the representative volume element of bituminous composite materials. Mechanics of Time-Dependent Materials, 2016, 20, 441-453.	4.4	10
40	Micromechanical modeling of I-FIT asphalt concrete specimens. Engineering Fracture Mechanics, 2018, 200, 234-250.	4.3	8
41	Quantification of the Effect of Binder Source on Flexibility of Long-Term Aged Asphalt Concrete. Transportation Research Record, 2020, 2674, 605-616.	1.9	8
42	Gradation Effects on the Strength Properties of Cement and Fly Ash Stabilized Quarry By-Products. , 2016, , .		7
43	Impact of High Asphalt Binder Replacement on Level Binder Properties for Controlling Reflective Cracking. Transportation Research Record, 2017, 2630, 118-127.	1.9	7
44	Brittleness progression for short- and long-term aged asphalt binders with various levels of recycled binders. International Journal of Pavement Engineering, 2021, 22, 1399-1409.	4.4	7
45	Illinois Flexibility Index Test: Effect of Specimen Geometry and Test Configuration on the Asphalt Concrete Damage Zone. Journal of Transportation Engineering Part B: Pavements, 2021, 147, 04020085.	1.5	7
46	Fatigue Tolerance of Aged Asphalt Binders Modified with Softeners. Transportation Research Record, 0, , 036119812110255.	1.9	7
47	A model to predict creep compliance of asphalt mixtures containing recycled materials. Construction and Building Materials, 2018, 184, 374-381.	7.2	6
48	Development of Domain Analysis for Determining Potential Pavement Damage. Journal of Transportation Engineering Part B: Pavements, 2018, 144, 04018030.	1.5	6
49	Effect of Methodological Choices on Pavement Life-Cycle Assessment. Transportation Research Record, 2018, 2672, 78-87.	1.9	5
50	Vehicle excess fuel consumption due to pavement deflection. Road Materials and Pavement Design, 2023, 24, 609-630.	4.0	5
51	Impact of Dynamic Loading on Confined Asphalt Concrete Surface. Transportation Research Record, 2022, 2676, 249-263.	1.9	5
52	Impacts of Field and Laboratory Long-Term Aging on Asphalt Binders. Transportation Research Record, 2022, 2676, 336-353.	1.9	5
53	Variable impact transportation (VIT) model for energy and environmental impact of hauling truck operation. International Journal of Life Cycle Assessment, 2019, 24, 1154-1168.	4.7	4
54	Impact of rest period on asphalt concrete permanent deformation. Construction and Building Materials, 2022, 332, 127329.	7.2	4

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55	Statistical Analysis of Hot-Mix Asphalt Pay for Performance versus Quality Control for Performance. Journal of Transportation Engineering Part B: Pavements, 2022, 148, .	1.5	3
56	A three-dimensional generalised finite element analysis for the near-surface cracking problem in flexible pavements. International Journal of Pavement Engineering, 2011, 12, 407-419.	4.4	2
57	Laboratory Characterization of Lowâ€"Rolling Resistance Danish Stone-Matrix Asphalt. Journal of Transportation Engineering Part B: Pavements, 2019, 145, 04018060.	1.5	2
58	Aggregate packing characterisation of cold recycled mixtures. International Journal of Pavement Engineering, 2023, 24, .	4.4	1